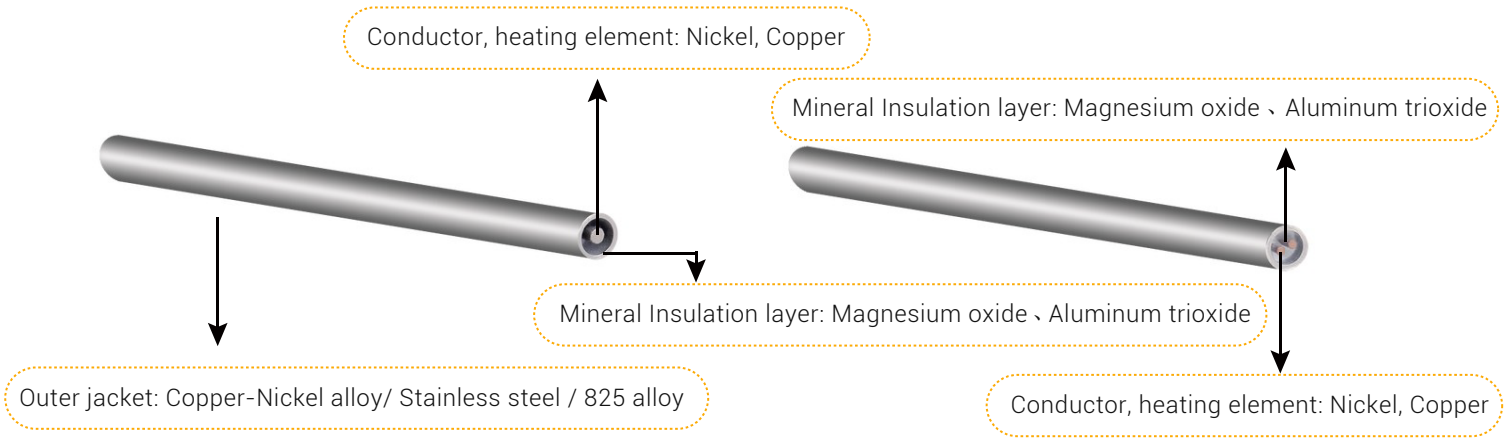
MSF Mineral insulation heating cable

Overview:

Jiahong MSF mineral insulation heating cable are common used in the area where required high maintaince temperature, high exposure temperature and high power output, like high temperature pipeline and high exposure temperature (within/out steam purge) of pipeline and vessel. Theoretically the maximum power output for MI heating cable will be 269W/m, then the maximum maintaince temperature is about 800℃, also the maximum withstand temperature will be 800℃. Single-core (MSF-1) & twin-core (MSF-2) are both for MI heating cable, as well as different resistance spec, so the heating cable can be suitable for different voltage level (Shown in certification) and electrial connection, as well as to the heat tracing requirement for different type or length of pipeline and vessel. MI heating cable is protected by metal outer jacket, which can be chemical resistance and corrosion resistance.

Product Structure:



The core is heating conductor element, as well as Magnesium oxide layer and metal outer jacket are to be added to form a complete structure of MSF heating cable from inside core to outside.

Product Feature:

- MSF heating cable is certified by IECEx, ATEX, NEPSI China and EAC Russia, including explosion-proof application, which can be used in the explosion area and ordinary safety area.
- Simple installation and stable power output of unit length.
- MSF heating cable can suitable for application under the condition which needed high power output, high withstand temperature and chemical resistance and corrosion resistance
- Different electrial power connection to achieve the heat tracing requirement in most economic and optimization.
- It has a complete series of accessory, including standard power box, splice/tee connection box and end seal box etc, which can ensure the long service life of the product

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Technical Specification:

MSF-1 Single core mineral insulation heating cable	
Maximum Voltage:	600V
Maximum maintaince temperature:	+500℃ (932℉)
Maximum exposure temperature:	+600℃ (1112℉ - stainless steel sheath)/+800℃ (1472℉ -825 alloy sheath)
Minimum installation temperature:	-80℃
Minimum bending radius:	No lower than 5 times outer-diameter
Approvals mark:	

MSF — 1 □ — □

Nominated Resistance

Outer jacket
C=Copper-Nickel alloy, S=304 stainless steel, L=825 Alloy

Single-core

Copper-Nickel outer jacket heating cable
Mineral Insulation heating cable

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MSF-1 Copper Nickel CuNi Outer Sheath Tracing Cable Nominal Resistance Specification					
Type	Resistance (Ω/km) @ 20℃	Refer outer diameter(mm)	Type	Resistance (Ω/km) @ 20℃	Refer outer diameter(mm)
MSF-1 C0004	4	5.9	MSF-1 C0188	188	4.7
MSF-1 C0007	7	5.3	MSF-1 C0250	250	4.4
MSF-1 C0011	11	4.9	MSF-1 C0312	312	4.2
MSF-1 C0017	17	4.6	MSF-1 C0400	400	4.0
MSF-1 C0025	25	3.7	MSF-1 C0480	480	3.8
MSF-1 C0040	40	3.4	MSF-1 C0630	630	3.7
MSF-1 C0063	63	3.2	MSF-1 C1000	1000	3.4
MSF-1 C0082	82	5.7	MSF-1 C1600	1600	3.2
MSF-1 C0122	122	5.2	MSF-1 C2400	2400	3.1
MSF-1 C0160	160	4.9	MSF-1 C4150	4150	3.0

MSF-1 Stainless Steel (SS) NO.1.4541 Outer Sheath Tracing Cable Nominal Resistance Specification					
Type	Resistance (Ω/km) @ 20℃	Refer outer diameter(mm)	Type	Resistance (Ω/km) @ 20℃	Refer outer diameter(mm)
MSF-1 S0002	2.1	6.8	MSF-1 S0100	100	4.7
MSF-1 S0003	3.4	5.9	MSF-1 S0120	120	4.5
MSF-1 S0005	5.3	5.3	MSF-1 S0153	153	4.2
MSF-1 S0007	7	5.0	MSF-1 S0160	160	6.5
MSF-1 S0008	8.5	4.8	MSF-1 S0200	200	5.9
MSF-1 S0011	11	4.5	MSF-1 S0250	250	5.3
MSF-1 S0013	13	4.3	MSF-1 S0400	400	4.7
MSF-1 S0017	17	4.2	MSF-1 S0500	500	4.5
MSF-1 S0021	21	4.0	MSF-1 S0630	630	4.3
MSF-1 S0025	25	4.7	MSF-1 S1000	1000	3.9
MSF-1 S0037	37	5.8	MSF-1 S1600	1600	3.6
MSF-1 S0040	40	5.8	MSF-1 S2500	2500	3.4

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MSF-1 Stainless Steel (SS) NO.1.4541 Outer Sheath Tracing Cable Nominal Resistance Specification					
Type	Resistance (Ω/km) @ 20℃	Refer outer diameter(mm)	Type	Resistance (Ω/km) @ 20℃	Refer outer diameter(mm)
MSF-1 S0047	47	5.4	MSF-1 S2800	2800	3.4
MSF-1 S0050	50	5.4	MSF-1 S3300	3300	3.4
MSF-1 S0060	60	5.2	MSF-1 S4000	4000	3.2
MSF-1 S0063	63	5.0	MSF-1 S5200	5200	3.2
MSF-1 S0074	74	4.8	MSF-1 S6300	6300	3.2
MSF-1 S0080	80	4.8	MSF-1 S10K0	10000	3.2
MSF-1 S0095	95	4.7			

MSF-1 825 Alloy Outer Sheath Tracing Cable Nominated Resistance Specification					
Type	Resistance (Ω/km) @ 20℃	Refer outer diameter(mm)	Type	Resistance (Ω/km) @ 20℃	Refer outer diameter(mm)
MSF-1 L0002	2.1	6.8	MSF-1 L0160	160	6.5
MSF-1 L0003	3.4	5.9	MSF-1 L0200	200	5.9
MSF-1 L 0005	5.3	5.3	MSF-1 L0250	250	5.3
MSF-1 L08R5	8.5	4.8	MSF-1 L0400	400	4.7
MSF-1 L0013	13	4.3	MSF-1 L0500	500	4.5
MSF-1 L0021	21	4.0	MSF-1 L0630	630	4.3
MSF-1 L0037	37	5.8	MSF-1 L1000	1000	3.9
MSF-1 L0047	47	5.4	MSF-1 L1600	1600	3.6
MSF-1 L0050	50	5.4	MSF-1 L2500	2500	3.4
MSF-1 L0060	60	5.2	MSF-1 L2800	2800	3.4
MSF-1 L0075	75	4.8	MSF-1 L3300	3300	3.4
MSF-1 L0080	80	4.8	MSF-1 L4000	4000	3.2
MSF-1 L0095	95	4.7	MSF-1 L5200	5200	3.2
MSF-1 L0100	100	4.7	MSF-1 L6300	6300	3.2
MSF-1 L0120	120	4.5	MSF-1 L10K0	10000	3.2
MSF-1 L0153	153	4.2			

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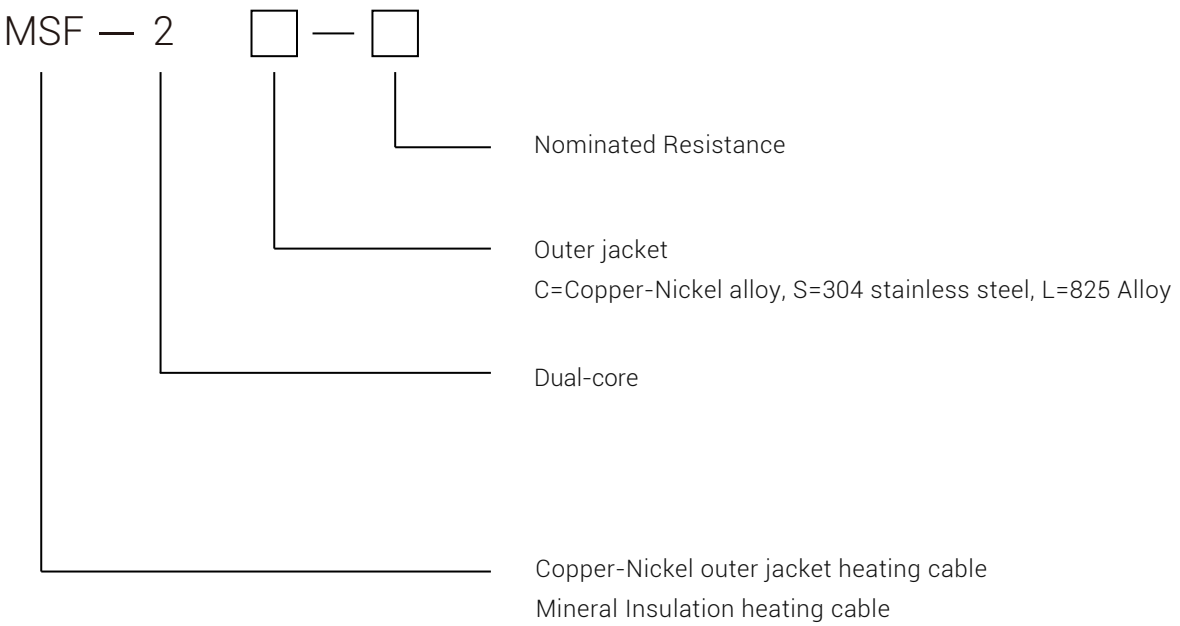
Technical Specification:

MSF-2 Dual Core mineral insulation heating cable	
Maximum Voltage:	300V / 600V
Maximum maintaince temperature:	+500℃ (932℉)
Maximum exposure temperature:	+600℃ (1112℉ - stainless steel sheath)/+800℃(1472℉ -825 alloy sheath)
Minimum installation temperature:	-80℃
Minimum bending radius:	no lower than 5 times outer-diameter
Approvals mark:	



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MSF-2 Stainless Steel (SS) NO.1.4541 Outer Sheath Tracing Cable Nominal Resistance Specification					
Type	Resistance (Ω/km) @ 20℃	Refer outer diameter(mm)	Type	Resistance (Ω/km) @ 20℃	Refer outer diameter(mm)
MSF-2 S0008	8.4	11.8	MSF-2 S1000	1000	5.7
MSF-2 S0013	13.4	9.8	MSF-2 S1300	1300	6.2
MSF-2 S0021	21	8.8	MSF-2 S2000	2000	5.8
MSF-2 S0034	34	8.0	MSF-2 S3300	3300	5.4
MSF-2 S0054	54	7.1	MSF-2 S4600	4600	5.8
MSF-2 S0085	85	6.4	MSF-2 S8000	8000	5.4
MSF-2 S0130	130	6.0	MSF-2 S013K	13000	5.0
MSF-2 S0180	180	7.9	MSF-2 S027K	27000	4.8
MSF-2 S0260	260	7.4	MSF-2 S040K	40000	4.6
MSF-2 S0360	360	6.8	MSF-2 S060K	60000	4.4
MSF-2 S0500	500	6.4	MSF-2 S072K	72000	4.2
MSF-2 S0650	650	5.9			

MSF-2 825 Alloy Outer Sheath Tracing Cable Nominated Resistance Specification					
Type	Resistance (Ω/km) @ 20℃	Refer outer diameter(mm)	Type	Resistance (Ω/km) @ 20℃	Refer outer diameter(mm)
MSF-2 L0008	8.4	11.8	MSF-2 L1000	1000	5.7
MSF-2 L0013	13.4	9.8	MSF-2 L1300	1300	6.2
MSF-2 L0021	21	8.8	MSF-2 L2000	2000	5.8
MSF-2 L0034	34	8.0	MSF-2 L3300	3300	5.4
MSF-2 L0054	54	7.1	MSF-2 L4600	4600	5.8
MSF-2 L0084	85	6.4	MSF-2 L8000	8000	5.4
MSF-2 L0130	130	6.0	MSF-2 L013K	13000	5.0
MSF-2 L0180	180	7.9	MSF-2 L027K	27000	4.8
MSF-2 L0260	260	7.4	MSF-2 L040K	40000	4.6
MSF-2 L0360	360	6.8	MSF-2 L060K	60000	4.4
MSF-2 L0500	500	6.4	MSF-2 L072K	72000	4.2
MSF-2 L0650	650	5.9			

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